









#### Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class  ${\mathbb I}$  design
- · Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

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### Applications

- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

#### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C ~  $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

### Model Encoding



Function options

- Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

- Rated wattage
- Series name

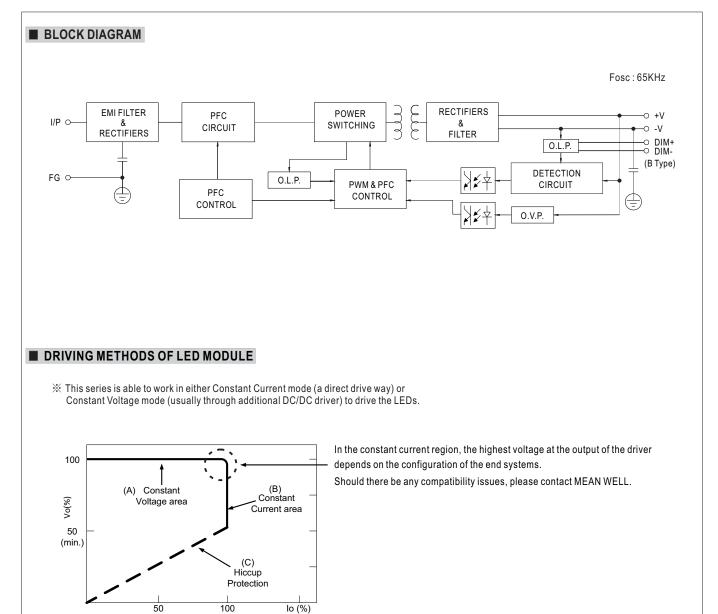
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



#### SPECIFICATION

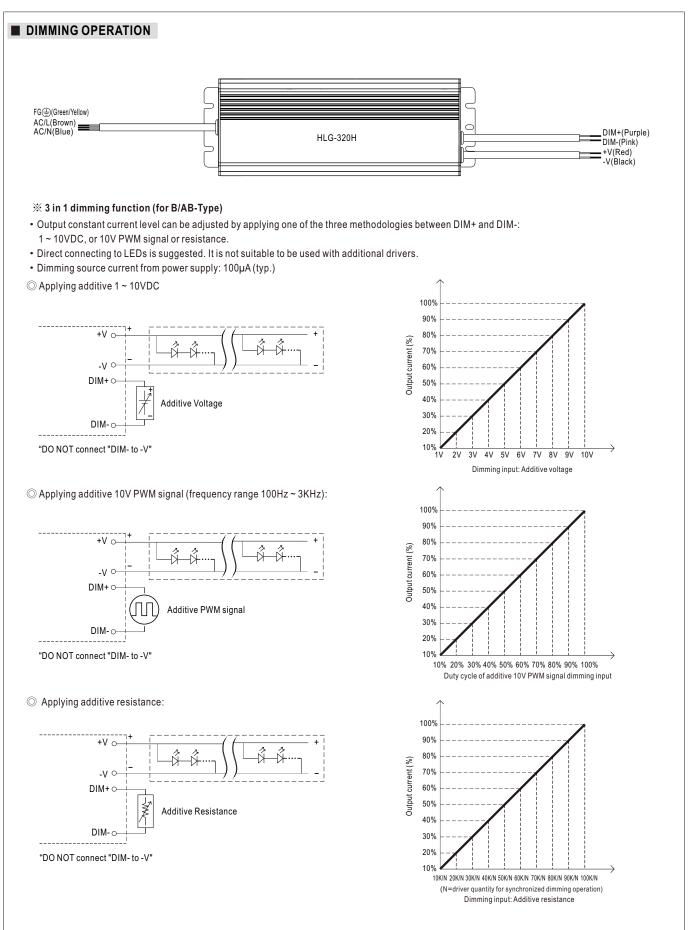
MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10~20V	12 ~ 24V	15 ~ 30V	18~36V	21~42V	24~48V	27 ~ 54V			
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A			
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W			
OUTPUT	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p			
							2001110 0	2001119.9	2001119.9	ooomvp p			
	VOLTAGE ADJ. RANGE	Adjustable for A/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         21 ~ 26V         26 ~ 32V         32 ~ 39V         38 ~ 45V         43 ~ 52V         49 ~ 58V											
		Adjustable for	r A/AB/C-Type	e only (via buil	t-in potentiome	eter)		1	1				
	CURRENT ADJ. RANGE	11~22A	9.5~19A	7.5 ~ 15A	· ·	5.35 ~ 10.7A	4 45 ~ 8 94	3.8~7.65A	3.35~6.7A	2.97 ~ 5.95			
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
		2500ms,80m	s/115VAC 6	300ms,80ms/2	230VAC								
	HOLD UP TIME (Typ.) 15ms / 115VAC, 230VAC												
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC											
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)											
	FREQUENCY RANGE	47 ~ 63Hz											
		PF≧0.98/115	5VAC. PF≧0.9	5/230VAC. PF	≥0.94/277VA0	C @ full load							
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.94/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)											
				( )		/	()						
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)											
INPUT					, ,	, ,	04 504	058/	050/	05%			
	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%			
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%			
	AC CURRENT (Typ.)	3.5A / 115VA			1.45A / 277VAC								
	INRUSH CURRENT(Typ.)	COLD START	70A(twidth=101	0µs measured	at 50% Ipeak) at	230VAC; Per N	NEMA 410						
	MAX. No. of PSUs on 16A	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC											
	CIRCUIT BREAKER												
	LEAKAGE CURRENT         <0.75mA / 277VAC												
	OVER CURRENT Note.4		rent limitina. re	covers automa	tically after fau	It condition is r	emoved						
PROTECTION	SHORT CIRCUIT		•		fault condition								
		14 ~ 17V	17.5 ~ 21V	22.5~27V	27 ~ 33V	33 ~ 37V	40~46V	46.5~53V	53.5~60V	59~65V			
	OVER VOLTAGE	Shut down ar	nd latch off o/p	voltage, re-pov	ver on to recove	er	1						
	OVER TEMPERATURE	Shut down ar	nd latch off o/p	voltage, re-pov	ver on to recove	ər							
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU	TPUTI OAD vs	TEMPERATI	JRF" section)						
ENVIRONMENT	WORKING TEMP.     Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)       MAX. CASE TEMP.     Tcase= +90 °C												
	WORKING HUMIDITY 20 ~ 95% RH non-condensing												
	STORAGE TEMP., HUMIDITY												
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	SAFETY STANDARDS	GB19510.1,G	JL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/N 3B19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2 CAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type), BIS IS 15885(Part2/Sec						t for C-type),				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	С							
EMC	ISOLATION RESISTANCE	,	,		00VDC/25°C/								
EMC	EMC EMISSION			,	N55032 (CISPR 25.1,EAC TP T	, ,	3S EN/EN6100	0-3-2 Class C	(@ load≧50%	);			
	EMC IMMUNITY	BS EN/EN61000-3-3,GB/T 17743 , GB17625.1,EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020								unity			
OTHERS	MTBF	1702.2K hrs i	min. Telcord	ia SR-332 (Bel	llcore); 157.2	K hrs min. N	IIL-HDBK-217	F (25°C)					
	DIMENSION	252*90*43.8r	mm (L*W*H)										
	PACKING	1.88Kg; 8pcs	/16Kg/0.92CUF	=T									
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)</li> <li>For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</li> <li>BIS certification is for HLG-320H-A only, but products sourced from Taiwan do not have the BIS logo, please contact your MEAN WELL sales for more information.</li> </ol>												
	<ol> <li>The ambient temperature of 12. For any application note an https://www.meanwell.com/</li> <li>BIS certification is for HLG-</li> </ol>	erating of 3.5° Id IP water pro Upload/PDF/L 320H-A only, I sider build in u	C/1000m with oof function ins ED_EN.pdf out products so using to comply	fanless model tallation cautio purced from Ta with Type HL	s and of $5^{\circ}$ C/H n, please refer aiwan do not ha . application.	000m with fan our user man ave the BIS log	ual before usir go, please cor	ng. htact your MEA	Ū	s for			





Typical output current normalized by rated current (%)

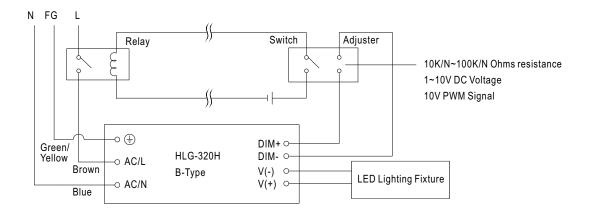






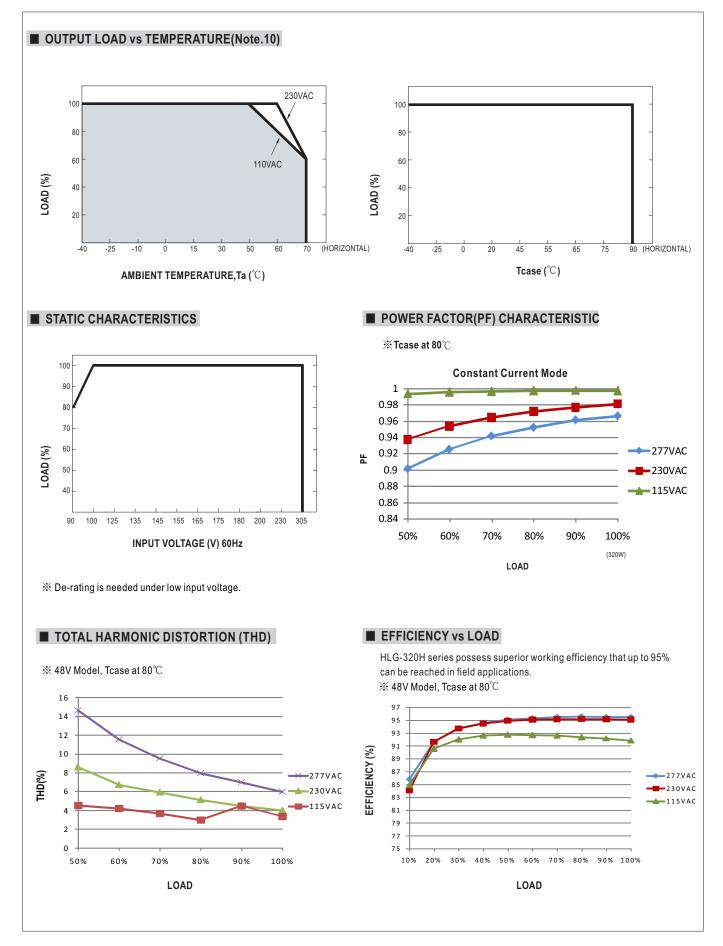
# HLG-320H series

Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.

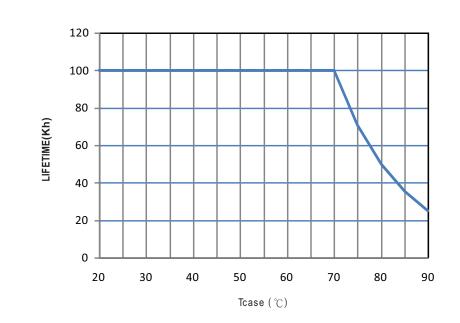




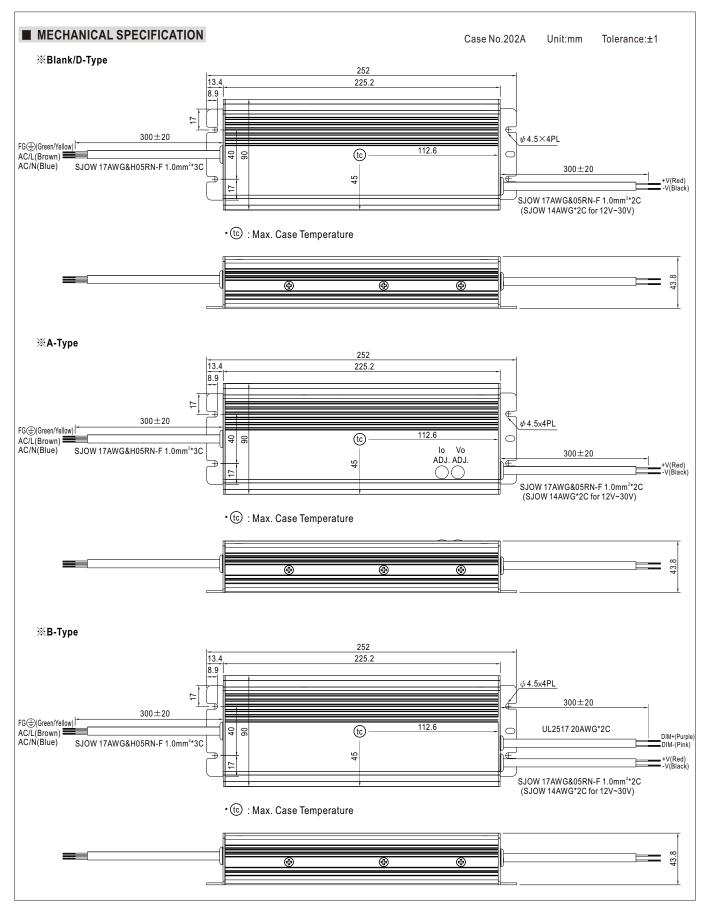


HLG-320H series

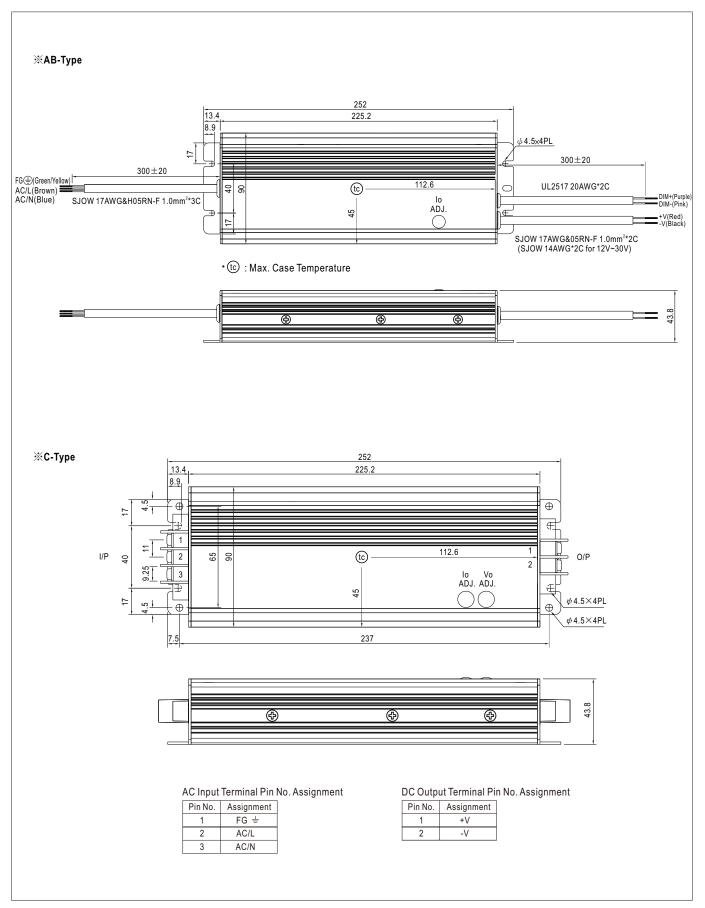
LIFE TIME









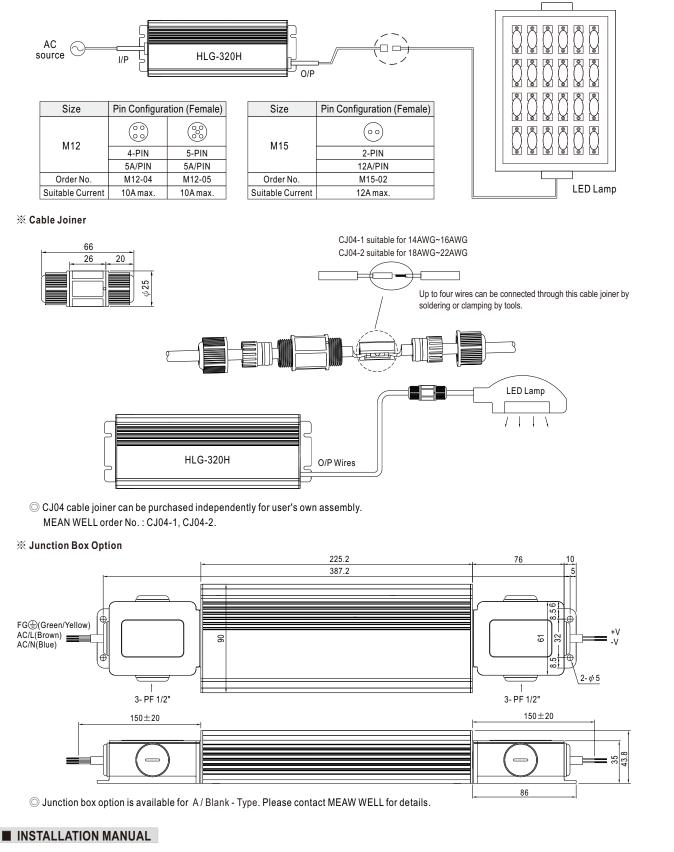




#### WATERPROOF CONNECTION

#### $\divideontimes {\rm Waterproof\, connector}$

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



Please refer to : http://www.meanwell.com/manual.html